

ABSTRACT

The propylene polymer of the invention is transparent and has good low-temperature heat-sealability and scratch resistance, and is favorable to wrapping and packaging films.

(1) The polymer has a melting point, T_m ($^{\circ}\text{C}$), measured through differential scanning calorimetry, of $110 \leq T_m \leq 140$; (2) its heat of fusion ΔH (J/g) and melting point T_m ($^{\circ}\text{C}$) satisfy $\Delta H \geq 0.45 \times T_m + 22$; (3) the half-value width T_h ($^{\circ}\text{C}$) of the peak top of its elution curve obtained in programmed-temperature fractionation is $T_h \leq 5$; and (4) its intrinsic viscosity $[\eta]$ (dl/g) measured in a solvent of tetralin at 135°C falls between 0.5 and 5.